

Cal/Ecotox

Exposure Factors for Salt-marsh Harvest Mouse (*Reithrodontomys raviventris*)*

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Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Age at Fledging, Metamorphosis, Weaning	21			d	NR	Juvenile	Lab	a	1
Body Weight - Mean	10.0		7.7 - 13.6	g	B	Adult	Lab	b	2
Clutch or Litter Size	4			#/litter	F	Adult	Lab	c	1
Clutch or Litter Size	3.72			young/litter	F	Adult	CA	d	3
Duration of Incubation or Gestation	25			d	F	Adult	Lab	e	1
Food Ingestion Rate	0.245			g/g/d	B	Adult	Lab	f	2
Home Range	1300		1100 - 1500	m ²	F	Adult	CA	g	4
Home Range	1550		1100 - 2000	m ²	M	Adult	CA	h	4
Home Range			38.7 - 80.8	m	B	NR	Contra Costa; CA	i	5
Population Density			2.7 - 37.1	#/ha	NR	NR	Solano; CA	j	6
Population Density			0.5 - 6.8	#/1000 m ²	NR	NR	Santa Clara; CA	k	1
Survival/ Mortality	2/19			survival ratio	NR	Juvenile	Santa Clara; CA	l	1
Time of Mating/ Laying	June - Sept.			B	Adult	CA		m	4
Time of Mating/ Laying	Mar. - Nov.			B	Adult	CA		n	3
Time of Mating/ Laying	review			B	Adult			o	7
Water Ingestion Rate	0.218			cc/g/d	B	Adult	Lab	p	2
Water Ingestion Rate			14.1 - 23.1	% BW/d	NR	NR	Lab	q	8

Notes

- a length of weaning period; N=NR
- b N=15; captured in Contra Costa County, CA
- c N=NR
- d N=NR; San Francisco Bay marshes
- e N=NR
- f daily rate of consumption of Diablo animal chow (dry pellets); N=6; captured in Contra Costa County, CA; body weight range = 8.3 - 11.5g
- g N=4; New Chicago Marsh, San Francisco Bay National Wildlife Refuge
- h N=4; New Chicago Marsh, San Francisco Bay National Wildlife Refuge
- i range of average maximum distance between captures for groups recaptured 2-9 times; N=NR; San Pablo salt marsh
- j N=32; Aug. - Sept.; Collinsville
- k range for 4 habitat types; N=3 - 128 animals/type; Palo Alto Baylands
- l 2 out of 19 juveniles reached adult size; N=NR; Palo Alto Baylands
- m time when reproductively active; N=65; New Chicago Marsh, San Francisco Bay National Wildlife Refuge
- n breeding; N=NR; San Francisco Bay marshes
- o N=NR
- p rate of fresh water consumption; body weight range = 8.3-11.5g; N=6; captured in Contra Costa County, CA; see citation for salt water ingestion rates; animals fed a dry pellet diet
- q range of mean daily consumption rates (% body weight) for control animals; N=3-5; body weight range = 11.7 - 14.1 g

References

- 1 Wondolleck, John T., William Zolan and Gary L. Stevens. 1976. A population study of the harvest mice (*Reithrodontomys raviventris* Dixon) in the Palo Alto Baylands Salt Marsh. Wasmann J. Biol. 34:52-64.
- 2 Fisler, George F. 1963. Effects of salt water on food and water consumption and weight of harvest mice. Ecology. 44:604-608.
- 3 Fisler, George F. 1965. Adaptations and speciation of harvest mice of the marshes of San Francisco Bay. Univ. Calif. Publ. Zool. 77:1-98.
- 4 Geissel, Wolfgang, Howard Shellhammer and H. Thomas Harvey. 1988. The ecology of the salt-marsh harvest mouse (*Reithrodontomys raviventris*) in a diked salt marsh. J. Mammal. 69:696-703.
- 5 Fisler, George F. 1968. Adaptations in movement patterns of two species of salt-marsh rodents. Bull. South. Calif. Acad. Sci. 67:96-103.

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- 6 Shellhammer, H.S. 1979. The salt marsh harvest mouse (*Reithrodontomys raviventris*) and the Montezuma Power Plant site. Cal-Neva Wildl. 1979:27-32.
- 7 Shellhammer, Howard. 1982. *Reithrodontomys raviventris*. Mamm. Species. 169:1-3.
- 8 Haines, Howard. 1964. Salt tolerance and water requirements in the salt-marsh harvest mouse. Physiol. Zool. 37:266-272.

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